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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference					
R-36	FOR FURTHER ACTION	See Form PCT/IPEA/416			
Instantional application No. PCT/JP2003/014559	International filing date (day/n 17 November 2003 (17.				
International Patent Classification (IPC) or na					
A61K 45/06, 31/138, 31/343, 31/	353, 31/437, 31/4409, 31/44	12, 31/496, 31/5377, 31/551, A61P 27/06, 43/00			
Applicant SANTEN PHARMACEUTICAL CO., LTD.					
This report is the international prelim Authority under Article 35 and transi	 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 				
2. This REPORT consists of a total of 8 sheets, including this cover sheet.					
3. This report is also accompanied by ANNEXES, comprising:					
) 	a. (sent to the applicant and to the International Bureau) a total of sheets, as follows:				
sheets of the descr and/or sheets contr	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).				
Supplemental Box	are in the international applicat	his Authority considers contain an amendment that goes ion as filed, as indicated in item 4 of Box No. I and the			
	b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Policing to Sagrange Listing and the Sagrange Listing and				
. 4. This report contains indications relati	ng to the following items:				
Box No. I Basis of the rep	ort				
Box No. II Priority					
Box No. III Non-establishm	ent of opinion with regard to no	velty, inventive step and industrial applicability			
Box No. IV Lack of unity of		·			
Box No. V Reasoned stater citations and ex					
Box No. VI Certain docume	nts cited				
	in the international application				
Box No. VIII Certain observa	tions on the international applica	ation			
Date of submission of the demand	Date of o	completion of this report			
14 June 2004 (14.06.20		06 October 2004 (06.10.2004)			
Name and mailing address of the IPEA/JP		Authorized officer			
Facsimile No.	Telephor	e No.			

Form PCT/IPEA/409 (cover sheet) (January 2004)

Translation



International application No.

PCT/JP2003/014559

Box No.	1 Basis of the report	
1. With	regard to the language, this report is based on the international application in the language in which it was	s filed, unless
	This report is based on translations from the original language into the following language which is language of a translation furnished for the purpose of:	
	international search (under Rules 12.3 and 23.1(b))	
	publication of the international application (under Rule 12.4)	
	international preliminary examination (under Rules 55.2 and/or 55.3)	
furnis	regard to the elements of the international application, this report is based on (replacement sheets the to the receiving Office in response to an invitation under Article 14 are referred to in this report of the receiving of the international application, this report is based on (replacement sheets the total are referred to in this report of the international application, this report is based on (replacement sheets).	
	The international application as originally filed/furnished	
	the description:	
	magazi wa this Authority on	ginally filed/furnished
	pages* received by this Authority on received by this Authority on	
	the claims:	rinally filed/fr
{	names*	ginally filed/furnished
		ment) under Article 19
	pages* received by this Authority on	
	the drawings:	'- '- '- '- '- '- '- '- '- '-
	nages on original control of the con	ginally filed/furnished
]	pages* received by this Authority on	
}	pages* received by this Authority on	
	a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.	
	- Saltanian Tananan Dadaman	
3.	The amendments have resulted in the cancellation of:	
" -		
	the description, pages	
1	the claims, Nos.	
1	the drawings, sheets/figs	
	the sequence listing (specify):	
}	any table(s) related to sequence listing (specify):	
4.	This report has been established as if (some of) the amendments annexed to this report and listed be made, since they have been considered to go beyond the disclosure as filed, as indicated in the S (Rule 70.2(c)). the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify):	low had not been upplemental Box
	any table(s) related to sequence listing (specify):	
* If iter	n 4 applies, some or all of those sheets may be marked "superseded."	

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ernational application No.
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Box No. J	III Non-establishment of opinion	n with regard to novelty, inventive step and industrial applicability
The ques	estions whether the claimed invention ble have not been examined in respect	n appears to be novel, to involve an inventive step (to be non obvious), or to be industrially
	the entire international application.	.
\boxtimes	claims Nos5	5-8
becaus SI	the said international application, o	or the said claims Nos
	the description, claims or drawings are so unclear that no meaningful o	s (indicate particular elements below) or said claims Nosopinion could be formed (specify):
	the claims, or said claims Nos by the description that no meaningf	ful opinion could be formed.
\boxtimes	no international search report has b	peen established for said claims Nos
	the nucleotide and/or amino acid sec Administrative Instructions in that:	equence listing does not comply with the standard provided for in Annex C of the
	the written form	has not been furnished
		does not comply with the standard
	the computer readable form	has not been furnished
		does not comply with the standard
	the tables related to the nucleotide as the technical requirements provided	and/or amino acid sequence listing, if in computer readable form only, do not comply with I for in Annex C-bis of the Administrative Instructions.
	see Supplemental Box for further de	etails.

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: III.1

The inventions that are set forth in claims 5 to 8 pertain to methods for the treatment of the human body by therapy (PCT Article 34(4)(a)(i) and PCT Rule 67.1(iv)).

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1.	Statement			
	Novelty (N)	Claims	1-4, 9-12	YES
		Claims		NO NO
	Inventive step (IS)	Claims		YES

Claims

Industrial applicability (IA) Claims

1-4, 9-12 NO

YES

NO

Claims

1-4, 9-12

2. Citations and explanations

The present written opinion was drafted on the basis of the disclosures of the following documents, which are cited in the international search report.

- Document 1: EP 1034793 A1 (Senju Pharmaceuticals Co., Ltd.)
- Document 2: EP 956865 A1 (Yoshitomi Pharmaceutical Ind., Ltd.)
- Document 3: UEHARA, M. et al., Nature, 1997, 389, pp. 990 to 994
- Document 4: WO 97/23222 A1 (Alcon Laboratories, Inc.)
- Document 5: Mariko ASAHI et al., The Pharmaceuticals Monthly, 1996, 38 (9), pp. 2311 to 2331
- Document 6: Kuniteru SHIRATO, Ganka, 2002, 44 (11), pp. 1443 to 1448
- Document 7: Tatsuro FUKUCHI, Ganka, 2002, 44 (11), pp. 1458 to 1463
- Document 8: WO 02/38158 A1 (PHARMACIA AB)
- Document 9: WO 93/16701 A2 (Alcon Laboratories, Inc.)
- Document 10: EP 286903 A1 (The Trustees of Columbia)
- Document 11: Ikuro HIGASHI et al., The Journal of the Eye, 2002, 19 (2), pp. 261 to 266
- Document 12: Yuichiro OTAKE et al., The Journal of the

Eye, 2000, 17 (5), pp. 687 to 690

Claims 1 to 4 and 9 to 12

Document 1 discloses agents for the treatment of glaucoma, which comprise a Rho kinase inhibitor as the active component, while documents 1 to 4 disclose specific compounds that exhibit a Rho kinase-inhibiting activity. Therein, a comparison of the inventions that are set forth in claims 1 to 4 and 9 to 12 and the inventions that are disclosed in documents 1 to 4 shows that the inventions set forth in claims 1 to 4 and 9 to 12 comprise a mixture of a Rho kinase inhibitor and a β -blocker; therefore, the former inventions differ from the latter inventions.

However, the fact that it is possible to use β -blockers in the treatment of glaucoma would be well known to a person skilled in the art, as disclosed in documents 5 to 12, and the feature of combining β -blockers with other medicaments that exhibit a therapeutic action in relation to glaucoma in order to achieve a more favorable therapeutic action would also be well known to a person skilled in the art. Therefore, it cannot be said to require special creative ability for a person skilled in the art to attempt to combine β -blockers and the Rho kinase inhibitors that are disclosed in documents 1 to 4 with the expectation of achieving a more favorable therapeutic action.

Consequently, the inventions that are set forth in claims 1 to 5 and 9 to 12 do not involve an inventive step in the light of documents 1 to 12.

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•	Rule 70.10)				
Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)		Priority date (valid claim) (day/month/year)	
WO 03/049745 A1 [E, X]	19 June 2003 (19.06.2003)	12 December 2002 (12.12	.2002)	12 December 2001 (12.12.200)	
				<u>.</u>	
written disclosures (Rule 70	90)				
Kind of non-written discl	losure Date of non-	written disclosure refe nonth/year)	rring to	written disclosure non-written disclosure sy/month/year)	

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claims 1 to 4 and 9 to 12

Claims 1, 2, 9 and 10 disclose Rho kinase inhibitors and β -blockers as the components of agents for the treatment of glaucoma. However, it is unclear specifically what compounds are included within the scope of the Rho kinase inhibitors, and β -blockers include a wide and varied range of compounds; consequently, it would be difficult to conduct an exhaustive examination in relation to all of the components in question. In addition, the disclosures of the description only set forth one specifically used compound for each of the components in the agents, and do not confirm the effects that result from combinations of other component compounds. Therefore, the inventions that are set forth in the present application cannot be said to be fully disclosed or to be fully supported by the description in the meaning of PCT Articles 5 and 6.

Consequently, the present written opinion was drafted only in relation to the scope of the items which are disclosed in each of the documents that are cited in the international search report.